THE QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY

EDITORIAL BOARD:

O. L. ZANGWILL

D. RUSSELL DAVIES R. C. OLDFIELD

H. B. BARLOW
D. E. BROADBENT
A. ELITHORN
R. L. GREGORY
K. R. L. HALL
R. A. HINDE
I. M. L. HUNTER
P. H. R. JAMES
A. R. JONCKHEERE
H. KAY
A. M. UTTLEY
A. J. WATSON
L. WEISKRANTZ
J. W. WHITFIELD

Editorial Assistant: KATHLEEN P. WATTS

Volume XII

PUBLISHED FOR
THE EXPERIMENTAL PSYCHOLOGY SOCIETY
BY
W. HEFFER & SONS LTD. CAMBRIDGE

The Quarterly Journal of Experimental Psychology

VOLUME XII, 1960

CONTENTS

E. R. F. W. Crossman. The Information-Capacity of the Human Motor-System in Pursuit Tracking - - - - - - - - - - - 1

V. D. Nebylitsyn, V. I. Rozhdestvenskaya and B. M. Teplov. Concerning the Interrelation between Absolute Sensitivity and Strength of the Nervous System - - - - - - - - - - - - - 17

R. W. Ditchburn and R. M. Pritchard. Binocular Vision with Two Stabilized Retinal Images - - - - - - - - - - 26

R. W. Sperry, R. E. Myers and A. M. Schrier. Perceptual Capacity of the Isolated Visual Cortex in the Cat - - - - - - - - - 65

A. M. Halliday, M. Kerr and A. Elithorn. Grouping of Stimuli and Apparent Exceptions to the Psychological Refractory Period - - 72

J. T. Eayrs and D. G. Moulton. Studies in Olfactory Acuity. I: Measurement of Olfactory Thresholds in the Rat - - - - - - - 90

D. G. Moulton and J. T. Eayrs. Studies of Olfactory Acuity. II: Relative Detectability of *n*-Aliphatic Alcohols by the Rat - - - - - - 99

P. C. Wason. On the Failure to Eliminate Hypotheses in a Conceptual Task - - - - - - - - - - - - - - 129

F. H. George and S. B. McIntosh. Experimental Disorientation and Conceptual Confusion - - - - - - - - - - - - 141

Alan Staniland. Redundancy as an Experimental Variable - - - 149

Peter Ladefoged and Donald E. Broadbent. Perception of Sequence in Auditory Events - - - - - - - - - - - - 162

D. G. Boyle. A Contribution to the Study of Phenomenal Causation - 171

G. H. Mowbray. Choice Reaction Times for Skilled Responses - - - 193

D. G. Moulton. Studies in Olfactory Acuity. III: Relative Detectability of *n*-Aliphatic Acetates by the Rat - - - - - - - - 203

Neville Moray. Broadbent's Filter Theory: Postulate H and the Problem of Switching Time - - - - - - - - - - - - 214

R. B. Joynson and N. S. Kirk. An Experimental Synthesis of the Associationist and Gestalt Accounts of the Perception of Size III - - - 221

SHORTER ARTICLES AND NOTES

R. C. Oldfield. A Simplified Method of Treatment for Size-Constancy Data 33

R. T. Wilkinson. The Effect of Lack of Sleep on Visual Watch-Keeping 36

George Ettlinger. Discrimination Learning Theory: Excitatory vs. Inhibitory Tendencies in Monkeys - - - - - - - - 41

R. Conrad. Very Brief Delay of Immediate Recall - - - - - - 45

B. Hermelin and N. O'Connor. Like and Cross Modality Responses in Normal and Subnormal Children - - - - - - - - - 48

G. S. Brindley. Two More Visual Theorems - - - - - - - 110

S. M. Gillies, D. A. Macsweeney and O. L. Zangwill. A Note on Some Unusual Handedness Patterns - - - - - - - - - - 113

Edgar Howarth. The Effect of Temporal Separation and Prior Habituation upon Preconditioning - - - - - - - - - - - - 117

J. A. Gray and A. A. I. Wedderburn. Grouping Strategies with Simultaneous Stimuli - - - - - - - - - - - - - 180

Irene Mackintosh Hulicka. Combination of Drive and Incentive - - 185

John Sylvester. Apparent Movement and the Brown-Voth Experiment 231

P. C. Dodwell. Discrimination of Small Shapes by the Rat - - - 237

Anne M. Treisman. Contextual Cues in Selective Listening - - - 242

APPARATUS

J. A. Deutsch. The Reflecting Shutter Principle and Mechanical Tachistoscopes - - - - - - - - - - - - - - 54

A. Perry and I. P. Howard. A New Colour Mixer and Episcotister - - 121

A. Carpenter and J. A. Leonard. The Use of Small Filament Lamps as Visual Stimuli - - - - - - - - - - - - - 249

Book Reviews - - - - - - - - - - 59, 124, 190 and 252

Publications Received - - - - - - - - - - - 128

Experimental Psychology Society:

Proceedings of the Experimental Psychology Society, 1959 - - - - 57